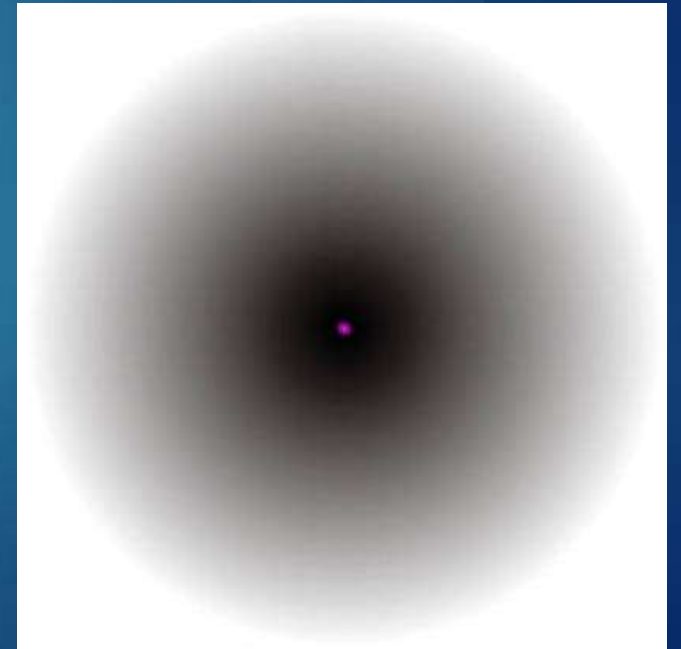
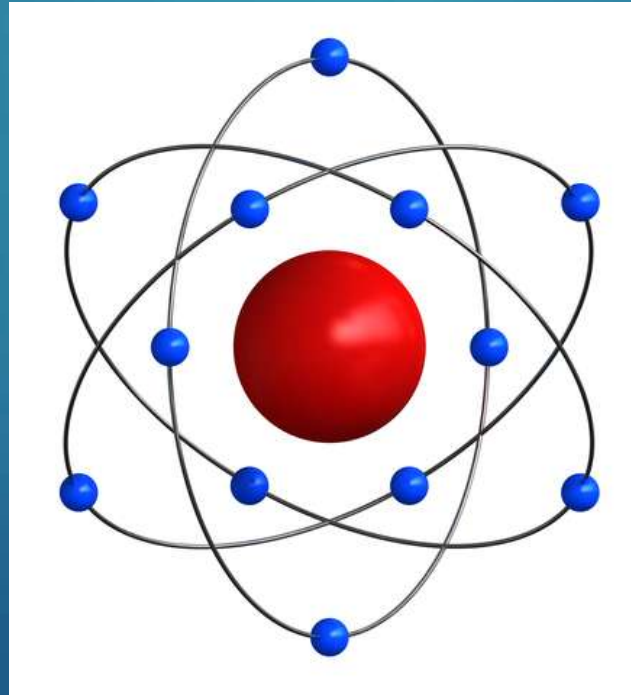
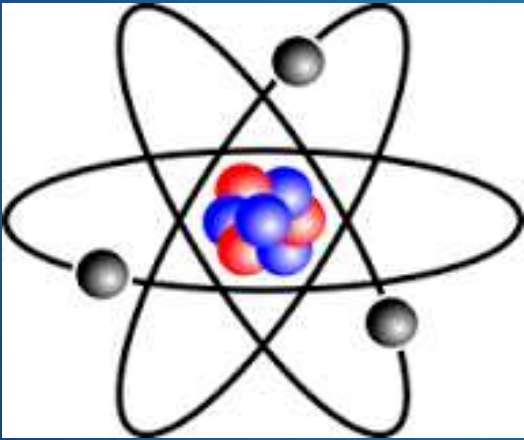


The Atom

Bell Work 9-27-16

- ▶ Which picture of the atom do you think best describes what an atom looks like? Justify your answer.



The Atom

- ▶ We will now begin a unit on the atom.
- ▶ Our first task is to learn about the history of the atomic model.

The Atom

- ▶ Pay special attention to
 - ▶ John Dalton
 - ▶ Ernest Rutherford
 - ▶ James Chadwick
 - ▶ Collection of people who worked with Cathode Ray Tubes.
- ▶ We will be going back to their descriptions of atoms to see where they went right and wrong.

The Atom

- ▶ Go to class website → Labs →
 - ▶ Historical Development of the Early and Current Atomic Model.

The Atom

▶ John Dalton's Postulates

- ▶ John Dalton's postulates were all based on experiments!
- ▶ 1st: elements are composed of tiny indivisible particles called atoms.
- ▶ 2nd: Atoms of the same element are identical, atoms of any one element are different from those of another element.
- ▶ 3rd: Atoms of different elements combine in simple whole-number ratios to form chemical compounds.
- ▶ 4th: In chemical reactions, atoms are combined, separated or rearranged, but never change into atoms of another element.